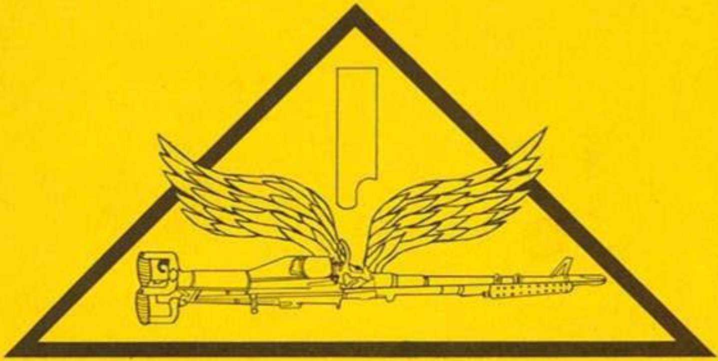
AIRCRAFT WEAPONIZATION



SUBSYSTEM PHOTOGRAPHS AND DESCRIPTION

MOSE E. LEWIS, III
COL, ARTILLERY
Project Manager

APRIL 1968

5.23-86
5.3

FOREWORD

"To Provide Airborne Armament Of High Quality And Maximum Effectiveness, On Time, And At A Minimum Of Cost", this is the objective of the Office of the Project Manager, Aircraft Weaponization.

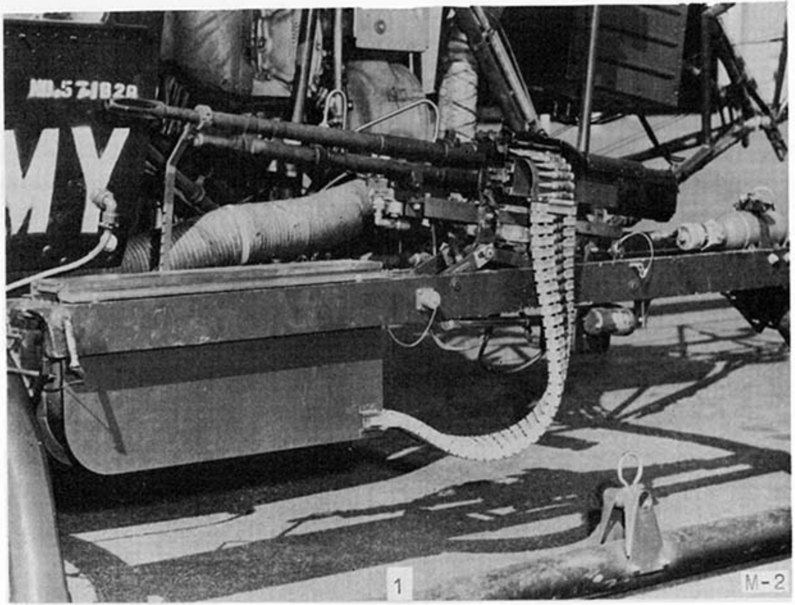
To attain this objective, a professional team with varied talents has been assembled to discharge the responsibilities of the Office. Responsibilities reach into all areas of research, development, procurement, production, logistical support, new equipment training, operational testing and deployment of Army aircraft armament subsystems and related equipment. This equipment includes guns, rockets, missiles, grenade launchers, pyrotechnics, CBW items, dispensers and applicable munitions, together with associated fire control equipment.

Unlike other project managed items, Aircraft Weaponization is unique in that it is currently responsible for 18 PEMA armament subsystems and major items and over 30 R&D tasks. It interfaces with most Army Aircraft Project Managers and is supported by a majority of the AMC Major Subordinate Commands as well as government laboratories and contractors.

Management efforts are varied and complex due to the large number of items and varied technologies involved. Each armament subsystem and major item goes through all of the same cycles as the aircraft to which it is mounted, i.e., R&D, procurement and production, and supply support. An armament subsystem may be compared to a watch--it may have inexpensive parts but the secret of success is to make all the parts function properly and in close coordination.

This booklet is prepared to furnish you with "thumbnail" information on some of the armament subsystems/items available or being considered for Army aircraft application. While a comprehensive RDT&E program is conducted by this Project to advance the state-of-the art of aircraft armament, information is not contained herein due to its nature and classification.

Mose E. Lewis, III
COL, Artillery
Project Manager



1

M-2

ARMAMENT SUBSYSTEM, HELICOPTER, 7.62MM MACHINE GUN:
TWIN M2

AIRCRAFT: OH-13, OH-23

INSTALLATION: One gun per side (2 guns)

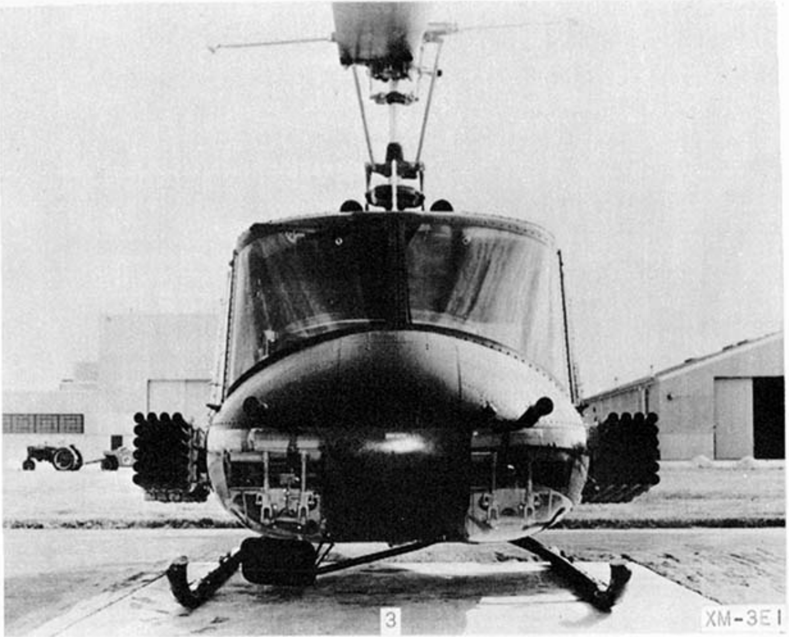
WEIGHT: OH-13 - 210 lbs with ammo
OH-23 - 216 lbs with ammo

MAX EFFECTIVE RANGE: 1000 meters

ELEVATION: 9° elevation only, capable of in-flight adjustment.

SIGHT SYSTEM: Fixed reference on windshield

SYSTEM DATA: Air cooled, gas operated, link-belt fed M60C Machine gun, 550-650 SPM. Pneumatic power charger. Ammunition capacity is 650 rounds per gun.


3
XM-3E1

ARMAMENT SUBSYSTEM, HELICOPTER, 2.75 INCH ROCKET LAUNCHER: XM3E1

AIRCRAFT: UH 1B/C.

INSTALLATION: 24 rockets per side (48 rockets).

MAX EFFECTIVE RANGE: 3000 meters.

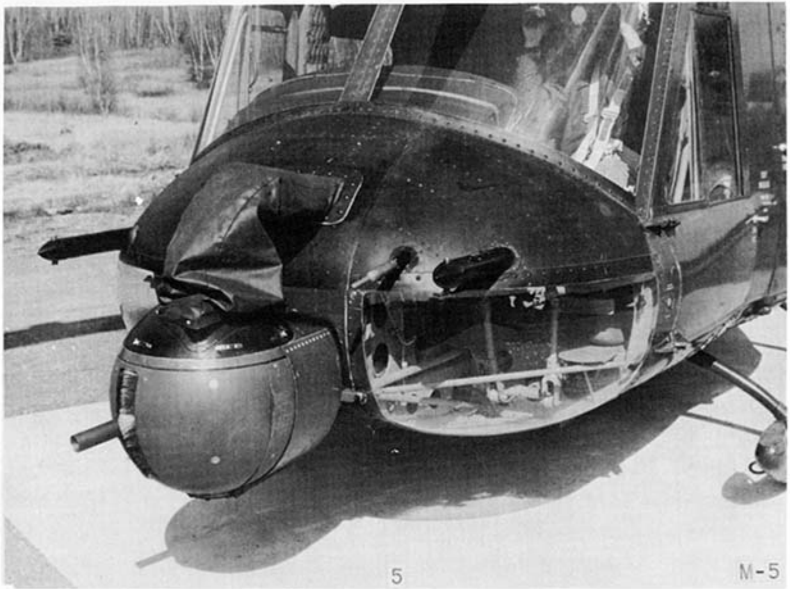
WEIGHT: 1627 lbs. w/M151 Rocket Warhead.

ELEVATION: Mechanical ground adjustable 0° to 6°.

TRAVERSE: Negligible, only for alignment purposes.

SIGHT SYSTEM: Pilot Mk 8 Sight; instrument-panel or roof mounted.

SYSTEM DATA: 2.75 inch rocket-pods may be jettisoned. XM3E1 utilizes 53.75 inch long tubes. XM3 utilizes 49.75 inch long tubes.



M-5

ARMAMENT SUBSYSTEM, HELICOPTER, 40MM GRENADE LAUNCHER: M5

AIRCRAFT: UH-1B/C

INSTALLATION: Nose mounted turret (1 launcher)

WEIGHT: 335 lbs w/150 rounds ammo or 459 lbs w/315 rounds ammo.

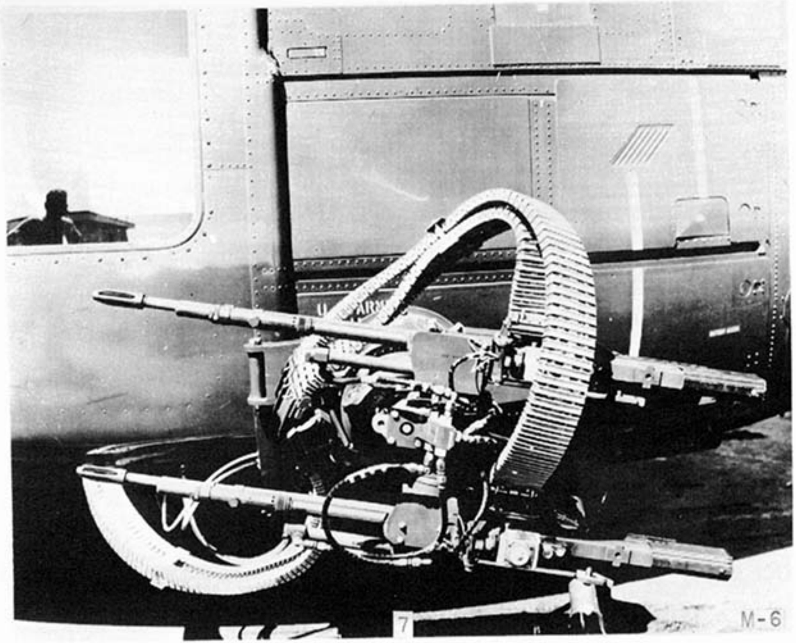
MAX EFFECTIVE RANGE: 1500 meters

ELEVATION: +15° depression, -35°.

TRAVERSE: 60° right & left

SIGHT SYSTEM: Reflex type sight; gunner/co-pilot operated in elevation & deflection.

SYSTEM DATA: M-75 launcher air-cooled, electric motor driven, 230 SPM. 150 or 315 rounds capacity.


U.S. ARMY
M-6

ARMAMENT SUBSYSTEM, HELICOPTER, 7.62MM MACHINE GUN: QUAD M6

AIRCRAFT: UH-1B/C.

INSTALLATION: Two guns each side.

WEIGHT: 685 lbs.

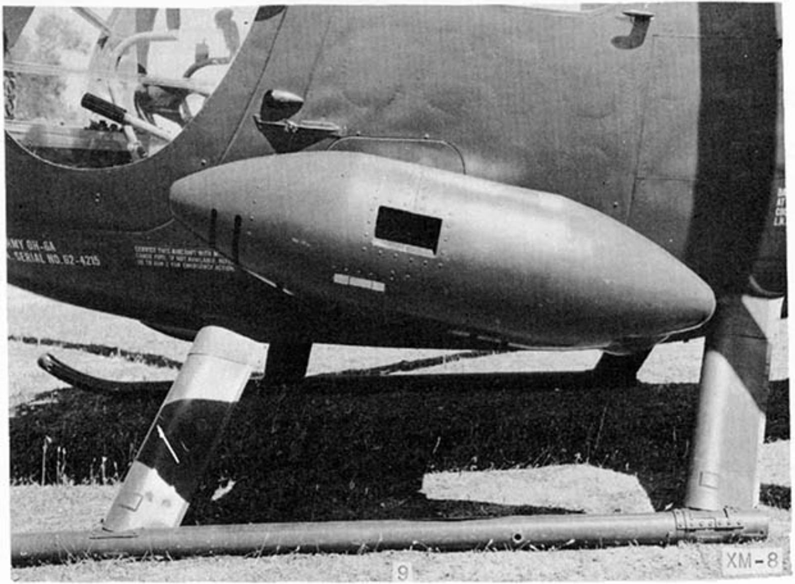
MAX EFFECTIVE RANGE: 1000 meters.

ELEVATION: +11, -63°

TRAVERSE: Inboard 12°, outboard 70°.

SIGHT SYSTEM: Copilot-Gunner flexible reflex type sight only.

SYSTEM DATA: M60C air-cooled, gas operated, link-belt fed. Left hand feed only. SPM 500-650; hydraulic power charger. 6000 rounds capacity.


MY OH-6A
SERIAL NO. 62-4215
9
XM-8

ARMAMENT SUBSYSTEM, HELICOPTER, 40MM GRENADE LAUNCHER: XM8

AIRCRAFT: OH-6A, OH-58A

INSTALLATION: 1 Grenade Launcher on left side of aircraft (40mm XM-129).

WEIGHT: 250 lbs w/150 rounds ammo.

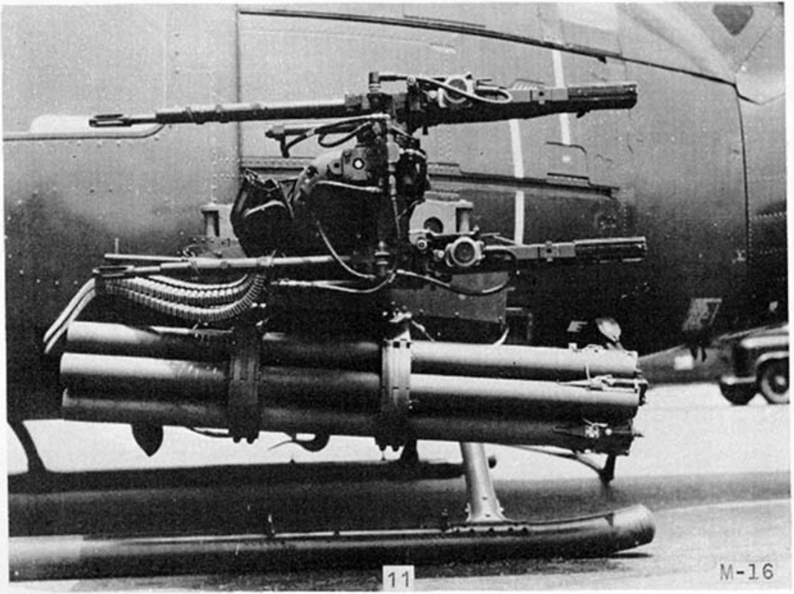
MAX EFFECTIVE RANGE: 1800 meters.

ELEVATION: $+10^\circ$ to -20°

TRAVERSE: None

SIGHT SYSTEM: Pilot XM70E1 Reflex type sight,

SYSTEM DATA: XM-129 launcher, electric driven, 400 SPM.


11
M-16

ARMAMENT SUBSYSTEM, HELICOPTER, 7.62MM MACHINE GUN 2.75" ROCKET LAUNCHER: M16 (STD B).

AIRCRAFT: UH-1B/C

INSTALLATION: 2 MG's and one 7-rd rocket pod each side.

WEIGHT: 1175 lbs. w/ammo.

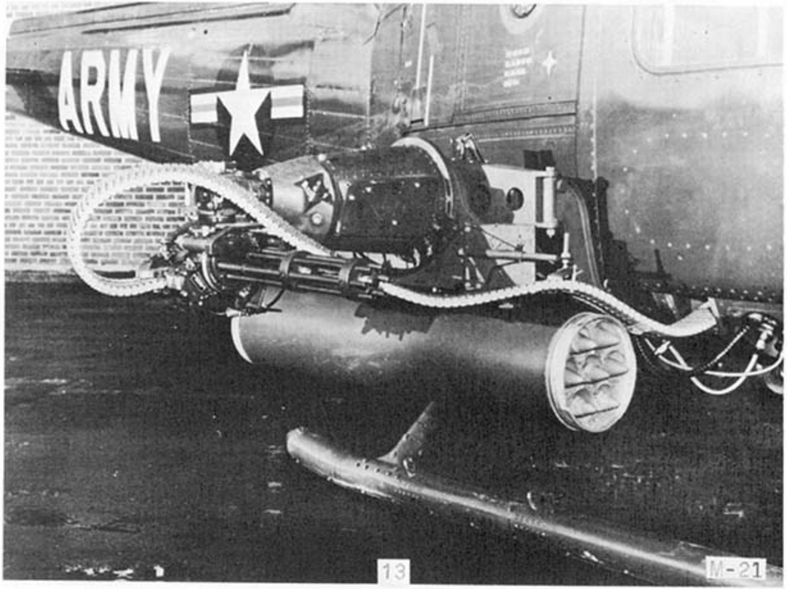
MAX EFFECTIVE RANGE: MG 1000 meters/rockets 3000 meters.

ELEVATION: MG's +11°,-63°; rocket pods, boresight adjustment only.

TRAVERSE: Machine Guns only; inboard 12°, outboard 70°.

SIGHT SYSTEM: Pilot manual reflex type sight for MG and rocket. Copilot Gunner flexible reflex type for machine gun only.

SYSTEM DATA: M60C air-cooled, gas operated, link-belt fed. Left hand feed only. SPM 500-650; hydraulic power charger. 6000 rounds capacity.


ARMY
13
M-21

ARMAMENT SUBSYSTEM, HELICOPTER, 7.62MM MACHINE GUN - 2.75 INCH ROCKET LAUNCHER: TWIN HIGH RATE GUN M21

AIRCRAFT: UH-1B/C.

INSTALLATION: One gun & one 7-rd rocket pod each side.

WEIGHT: 1179.2 lbs w/ammo.

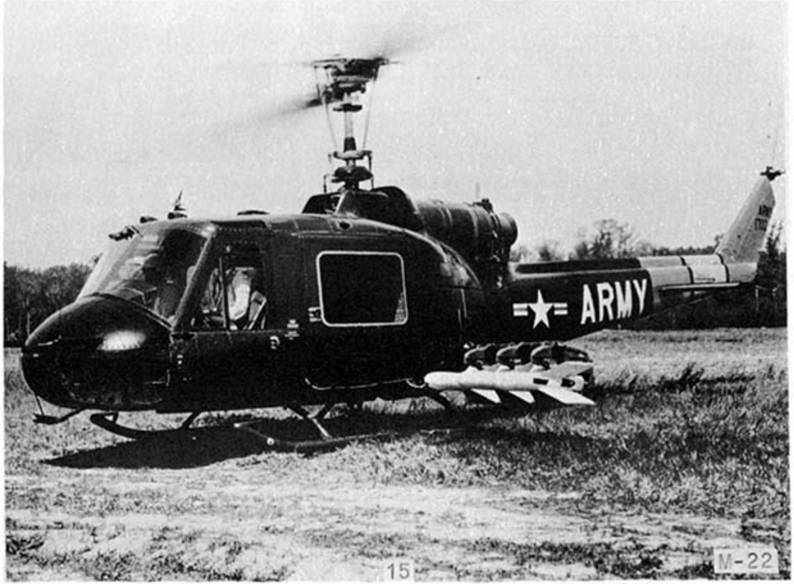
MAX EFFECTIVE RANGE: MG, 1000 meters - rockets, 3000 meters.

ELEVATION: Machine Guns +10°, to -85°. Rocket pods; boresight only.

TRAVERSE: Machine guns; inboard 12°, outboard 70°.

SIGHT SYSTEM: Pilot manual reflex type sight for MG and rocket. Co-pilot-Gunner flexible reflex type sight for MG only.

SYSTEM DATA: M-134 MG-6 barrel, electrically driven; dual rate of fire 2000-4000 SPM. 2.75 inch rockets - pods may be jettisoned; 14 rockets capacity.



M-22

ARMAMENT SUBSYSTEM, HELICOPTER, GUIDED MISSILE LAUNCHER, M-22

AIRCRAFT: UH-1B/C.

INSTALLATION: 3 missiles mounted on each side of aircraft

WEIGHT: 685.7 lbs w/missiles

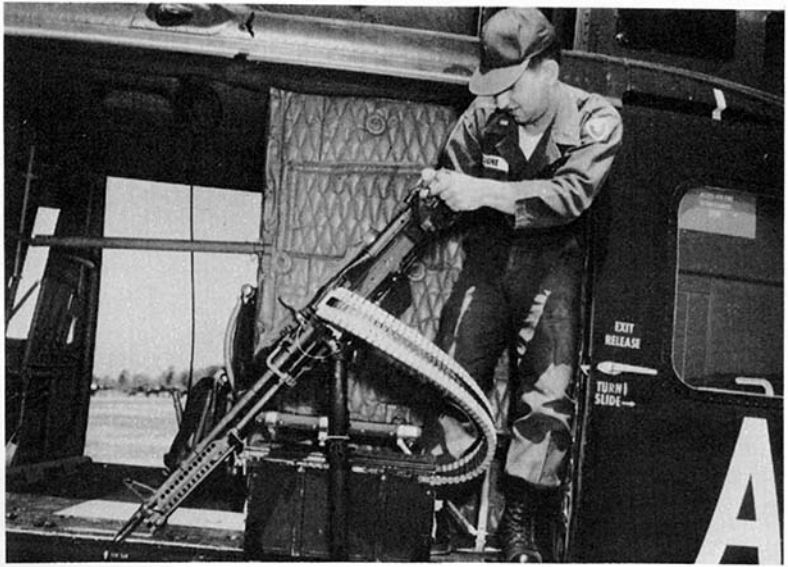
MAX EFFECTIVE RANGE: 3000 meters

ELEVATION: Missile directed in flight by wire command link

TRAVERSE: Missile directed in flight by wire command link

SIGHT SYSTEM: Pilot - MK8 lighted roof mounted sight. Copilot/Gunner - 6 x 42 power anti-oscillation binoculor (M-55) or monocular (M-58)

SYSTEM DATA: Complete outboard stores are jettisonable or each missile may be jettisoned individually.


EXIT
RELEASE
TURN
SLIDE →
A

ARMAMENT SUBSYSTEM, HELICOPTER, 7.62MM MACHINE GUN, DOOR MOUNTED, LT WT M-23

AIRCRAFT: UH-1D

INSTALLATION: One gun in each cargo door (2 guns).

WEIGHT: 210 lbs, w/ammo.

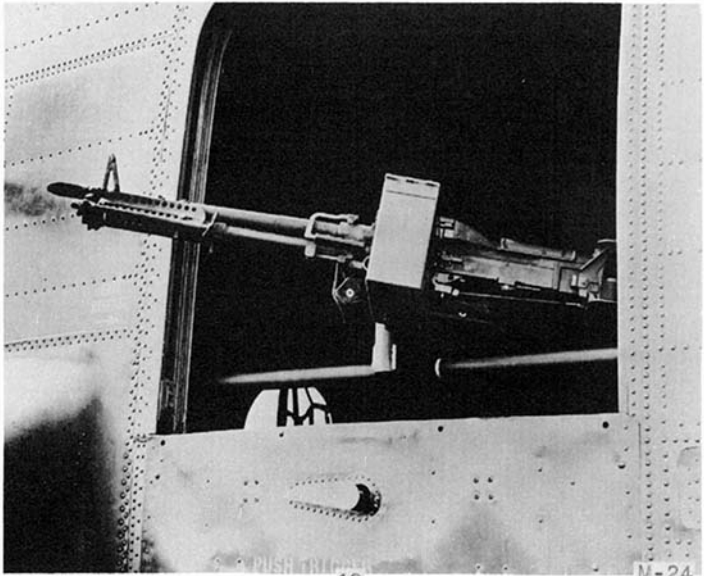
MAX EFFECTIVE RANGE: 1000 meters.

ELEVATION: FORWARD +3.5°, aft 6.5°, depression -82°.

TRAVERSE: From 2° to 178°.

SIGHT SYSTEM: Ring Sight.

SYSTEM DATA: 600 rd capacity per gun/M60D MG, 550-600 SPM.



19

ARMAMENT SUBSYSTEM, HELICOPTER 7.62MM MACHINE GUN: DOOR MOUNTED, LT WT. M-24

AIRCRAFT: CH-47A

INSTALLATION: Right side, 1 gun in doorway; left side, 1 gun in escape hatch.

WEIGHT: 175 lbs. w/ammo.

MAX EFFECTIVE RANGE: 1000 meters.

ELEVATION: Forward +3°, aft +6.5°. Depression 78° right side, 67° left side.

TRAVERSE: From 16° to 152°.

SIGHT SYSTEM: Ring sight.

SYSTEM DATA: 200 rd. capacity per side. Ammo boxes are attached to M-60D. Additional ammo (800 rds) in ready boxes. 550-600 SPM.

ARMY
ARMY
XM-26

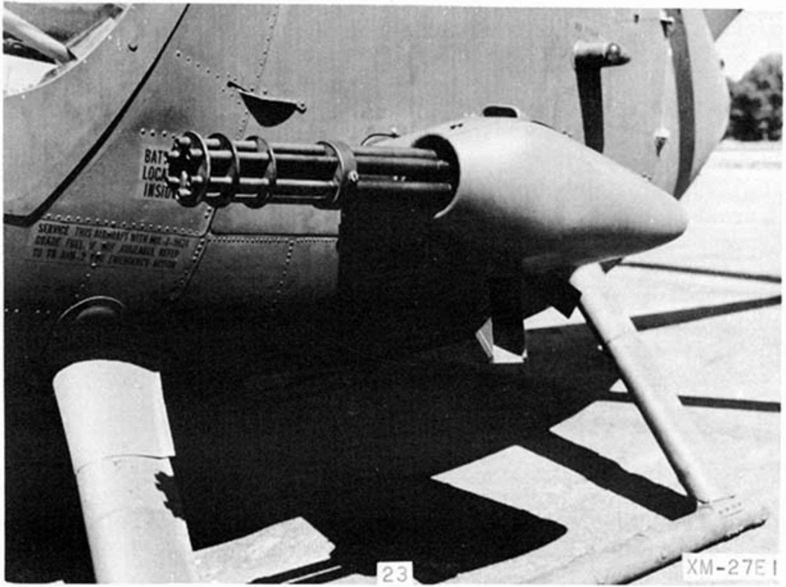
ARMAMENT SUBSYSTEM, HELICOPTER, GUIDED MISSILE LAUNCHER: TOW/HELICOPTER, XM26

The XM-26 subsystem utilizing the tube-launched, optically tracked, wire guided (TOW) missile is under development as a replacement for the M-22 helicopter armament subsystem. The XM26 subsystem will significantly improve helicopter capability against point targets such as armored vehicles and fortifications.

Effective use of the TOW missile in the airborne role is made possible by development of a stabilized sight system which automatically feeds course correction data to the missile while in flight. Using the new sight, the only demand on the gunner is to hold the target in his sights while a computer guides the missile to the target.

This subsystem will be carried through development only at this time.

A portion of the guidance and control components of this subsystem, along with certain components developed specifically for Cheyenne (AH-56A) will be furnished to the Project Manager Cheyenne for use in the developmental Advanced Aerial Fire Support System.


23
XM-27E1

ARMAMENT SUBSYSTEM, HELICOPTER, 7.62MM MG: HIGH RATE, XM27E1

AIRCRAFT: OH-6A, OH-58A

INSTALLATION: 1 high rate of fire machine gun on left side of aircraft. (7.62mm M-134)

WEIGHT: 245 lbs. (with 2,000 rounds of 7.62mm ammunition)

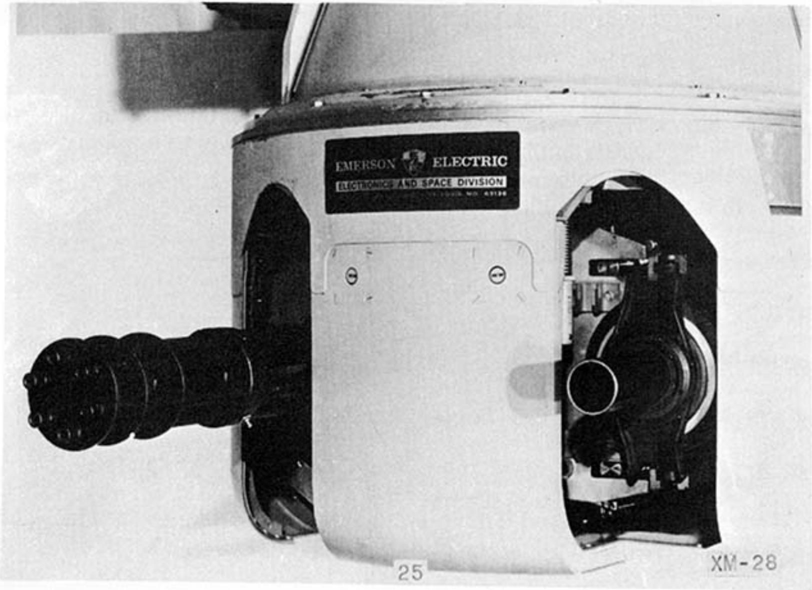
MAX EFFECTIVE RANGE: 1,000 meters.

ELEVATION: +10° to -20°.

TRAVERSE: None

SIGHT SYSTEM: Pilot XM70E1 Reflex Type Sight.

SYSTEM DATA: High rate of fire machine gun fires at the rate of 2000 or 4000 shots per minute. Ammunition is stored in the aircraft and is moved to the gun through flexible chuting.



25

XM-28

ARMAMENT SUBSYSTEM, HELICOPTER, 7.62MM MACHINE GUN, 40MM GRENADE LAUNCHER, HIGH RATE: XM-28

AIRCRAFT: AH-1G

INSTALLATION: Twin gun nose turret with 2 M134 7.62mm machine gun, 2 XM129 40mm grenade launchers, or one of each.

WEIGHT: 880 lbs. with ammunition.

MAX EFFECTIVE RANGE: 7.62mm MG 1000 meters - 40mm grenade launcher 1800 meters.

ELEVATION: +20°, -50°.

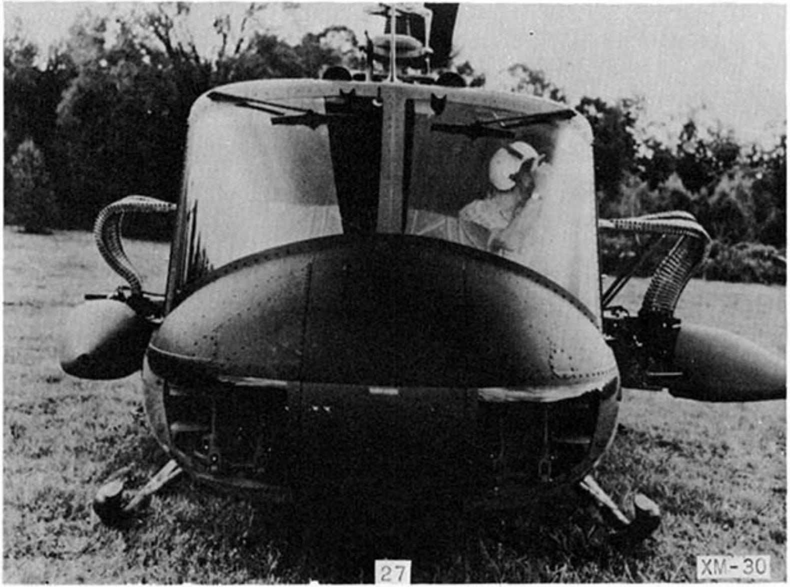
TRAVERSE: ± 110°.

SIGHT SYSTEM: Simple, lighted reticle, flexible sight with automatic airspeed compensation and manual range adjustment.

SYSTEM DATA: Minimum ammunition capacities:

One 7.62mm gun and - 4000 rounds 7.62mm
One 40mm grenade launcher - 300 rounds 40mm

Two 7.62mm guns - 8000 rounds 7.62mm
Two 40mm grenade launcher - 600 rounds 40mm


27
XM-30

ARMAMENT SUBSYSTEM, HELICOPTER, 30MM AUTOMATIC GUN: XM-30

AIRCRAFT: UH-1C

INSTALLATION: One XM140 gun each side

WEIGHT: 2200 lbs w/ammo

MAX EFFECTIVE RANGE: Area fire, 3000 meters; point fire, 1500 meters

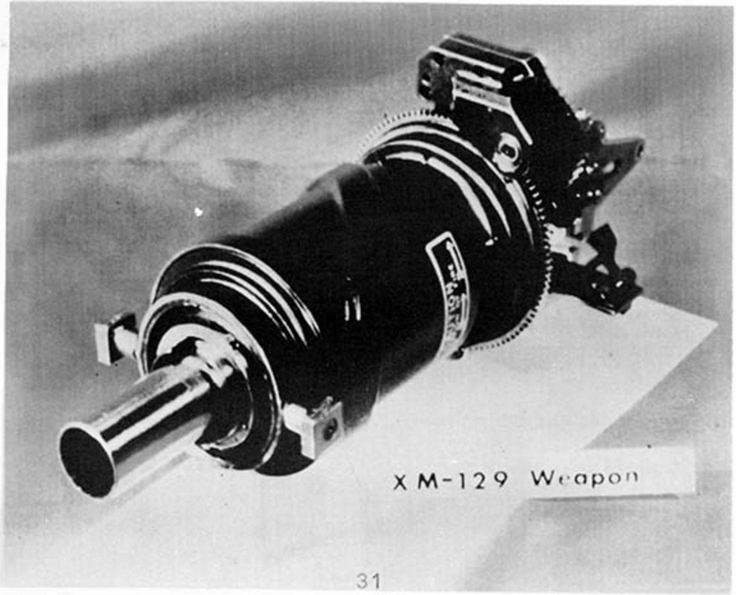
ELEVATION: +12°, depression -45°

TRAVERSE: 5° inboard, 60° outboard

SIGHT SYSTEM: Copilot-gunner flexible reflex type sight

SYSTEM DATA: 1200 rds capacity - 425 shots per minute. (NOTE: This subsystem will be carried through ET/ST and type classification. It will be placed on the shelf for possible future use).

The XM140 gun will also be used in the XM52 Armament Subsystem for the AH-56A (Cheyenne).



XM-129 Weapon

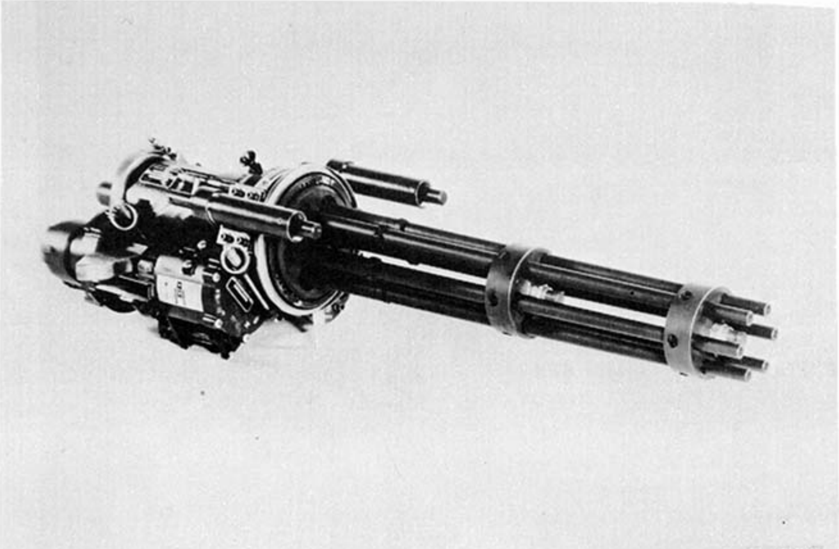
LAUNCHER, GRENADE, 40MM XM-129

WEIGHT: 43.5 lbs

MAX EFFECTIVE RANGE: 1800 meters

INSTALLATION: This launcher is used in the XM-28 Subsystem for the AH-1G, and is planned for the XM-8 Subsystem for OH-6A and OH-58, and the XM51 Subsystem for AH-56A. Will also be used to replace the present M75 launchers in the M5 Subsystems as they wear out.

RATE OF FIRE: 400 SPM



M-134

AUTOMATIC GUN, 7.62MM, M-134

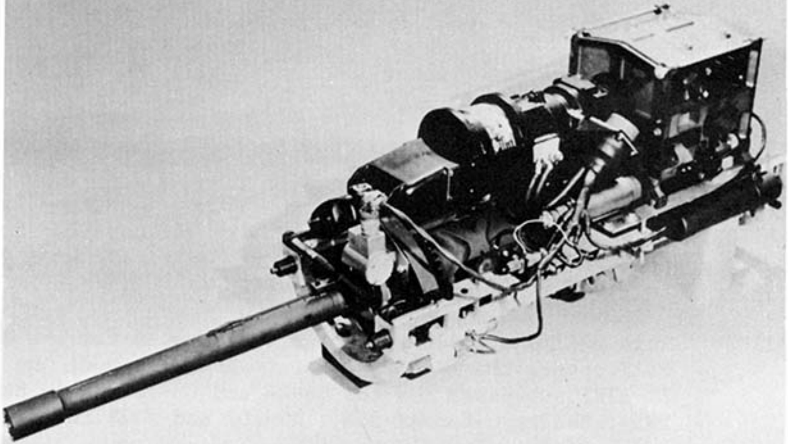
WEIGHT: 60 lbs (Including drive motor).

LENGTH: 31.5 inches

MAX EFFECTIVE RANGE: 1500 meters

GUN OPERATION: An electric driven 6-barrel machine gun capable of firing up to 6000 shots per minute. Rate of fire can be adapted to 2000 or 4000 shots per minute.

INSTALLATION: This gun is utilized in the M21 subsystem for the UH-1B helicopter, the XM-18E1 Aircraft Armament Pod; the XM-27E1 subsystem for the OH-6A and OH-58 and in the XM53 subsystem for AH-56A; TAT-102 and XM28 for AH-1G.



XM-140

AUTOMATIC GUN, 30MM, XM-140

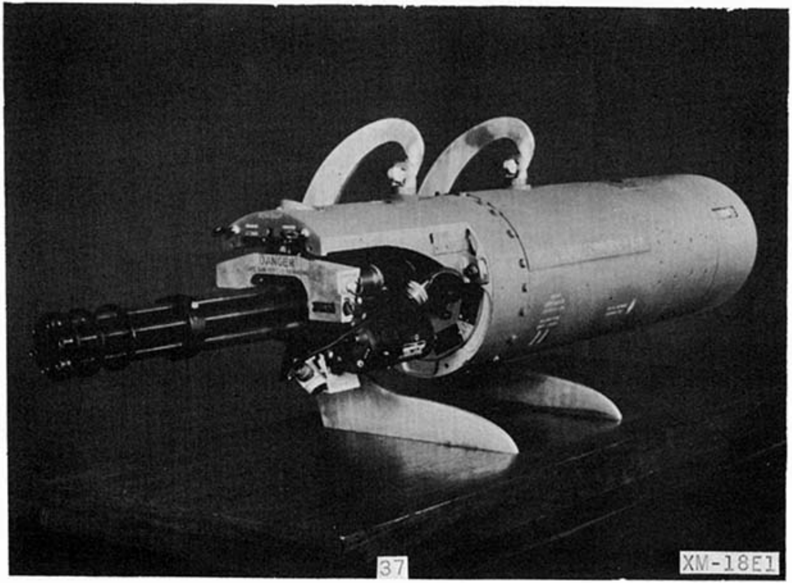
WEIGHT: 148 lbs (current, excluding ammunition)

LENGTH: 48 inches

MAX EFFECTIVE RANGE: 3000 meters at 5° QE.

RATE OF FIRE: 425 SPM

INSTALLATION: This gun is utilized in the XM-30 Subsystem for the UH-1C, and in the XM-52 Subsystem for the AH-56A.



XM-18E1

ARMAMENT POD, HELICOPTER, 7.62MM HI-RATE MACHINE GUN: XM-18E1

AIRCRAFT: AH-1G

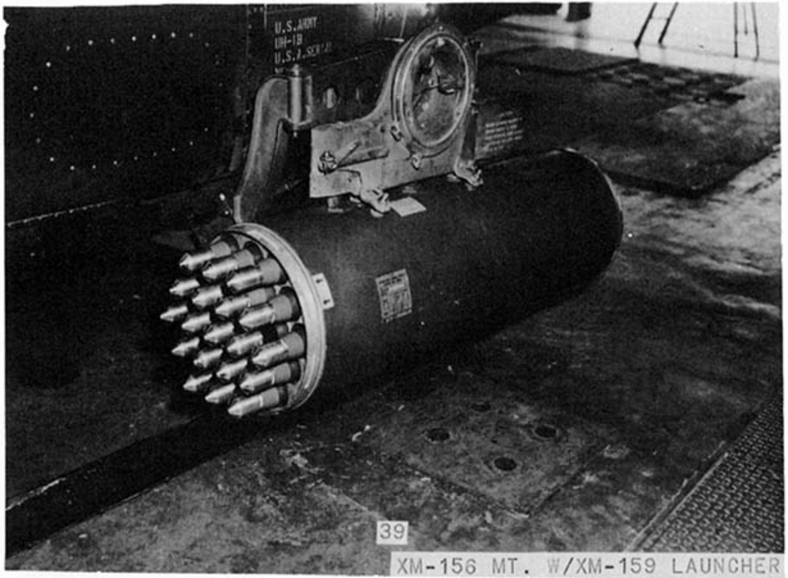
INSTALLATION: Suspended on only the in-board store stations; a total of 2 pods are carried.

GUN: 7.62mm Hi-Rate M-134 Machine Gun, Electric Drive. Linkless Ammunition Feed System in a pod.

POD: Reinforced honeycomb tube. Length 85 inches, diameter 12 inches.

WEIGHT OF ARMAMENT POD: 325 lbs. loaded
245 lbs. empty

FIRING RATE: 2000 or 4000 SPM, ammunition capacity 1500 rds.



39

XM-156 MT. W/XM-159 LAUNCHER

MOUNT, MULTIARMAMENT, HELICOPTER, XM-156
(SHOWN WITH LAUNCHER, ROCKET, AIRBORNE, XM-159C)

AIRCRAFT: UH-1B and CH-47A (XM-159C Launcher only also to be used on AH-1G (HUEYCOBRA) and AH-56A (Cheyenne))

INSTALLATION: Mt. can accomodate external stores on a 14 inch bomb rack suspension up to 540 lbs., initially used with one 19-rd rocket pod per side.

WEIGHT: With XM-159C Launcher (Empty: 280 lbs.)
(Loaded: 1296 lbs. w/M151 Warhead)

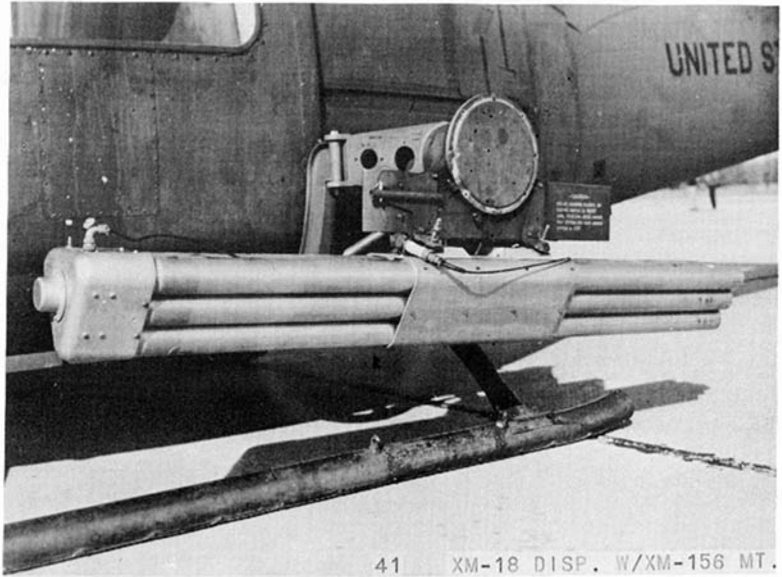
MAX EFFECTIVE RANGE: 2.75" FFAR 3000 meters

ELEVATION: Fixed:
Foresight adjust only

TRAVERSE: Fixed

SIGHT SYSTEM: Fixed reflex type sight

SYSTEM DATA: The XM-159C Launcher is a re-usable single fire (fired at time intervals of 6 rockets per second) aluminum tube launcher designed specifically for the US Army. It fires nineteen 2.75 in. folding fin aerial rockets (FFAR).

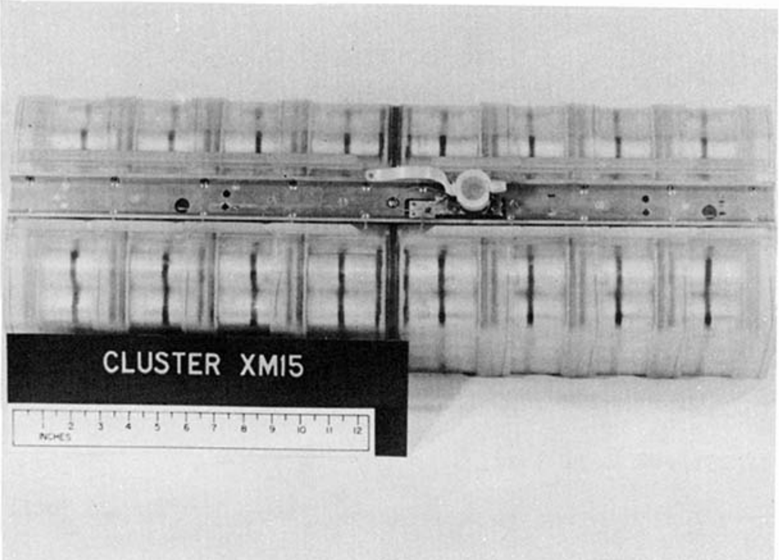


41 XM-18 DISP. W/XM-156 MT.

DISPENSER, XM18

The XM-18 Dispenser is composed of six (6) 2.75" tubes with aft ejection and is utilized for dispensing flares, munitions and CS grenades. This dispenser is used with the XM-144 Fragmentation Bomb in the XM-25 Subsystem, and with XM-54 CS Grenades in the XM-27 Subsystem. Two XM-18 Dispensers mated by an adapter and used with the 2 million candle power XM-170 Flare make up the XM-15 Subsystem.

LENGTH:	81.31 in.	CAPACITY:	
WIDTH (MAX):	9.38 in.	XM-144 BOMB	114
HEIGHT (MAX):	11.28 in.	XM-54 GRENADE	72
WEIGHT (EMPTY):	50 lbs.	XM-170 FLARE	12 each disp.
			24 Total



XM-15

CANISTER, CLUSTER, TACTICAL CS, 50 LB. XM-15

The XM-15 CS Canister Cluster consists of 8 modules, heat sealed together, a fuze bar assembly and a mechanical time fuze XM 721. Each module is made of molded plastic and contains 33 XM 16 Tactical CS Canisters filled with CS agent.

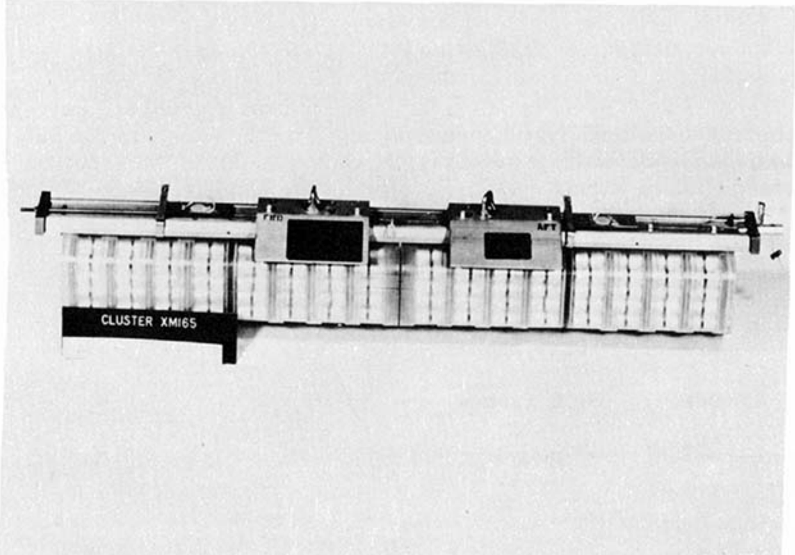
This cluster is used for aerial delivery of CS on selected targets.

LENGTH: 27 inches

HEIGHT: 10.15 inches

DEPTH: 8.50 inches

WEIGHT: 47 pounds



XM-165

CANISTER, CLUSTER, TACTICAL CS, 130 LB: XM165

The XM165 CS Canister Cluster consists of a hinged strongback assembly and two XM-15, 50 lb. Tactical CS Canister Clusters. The strongback assembly is placed over two XM-15, 50 lb. Canister Clusters and ties the two clusters together by means of the spring loaded end clamps, tie rod, and explosive bolt assembly.

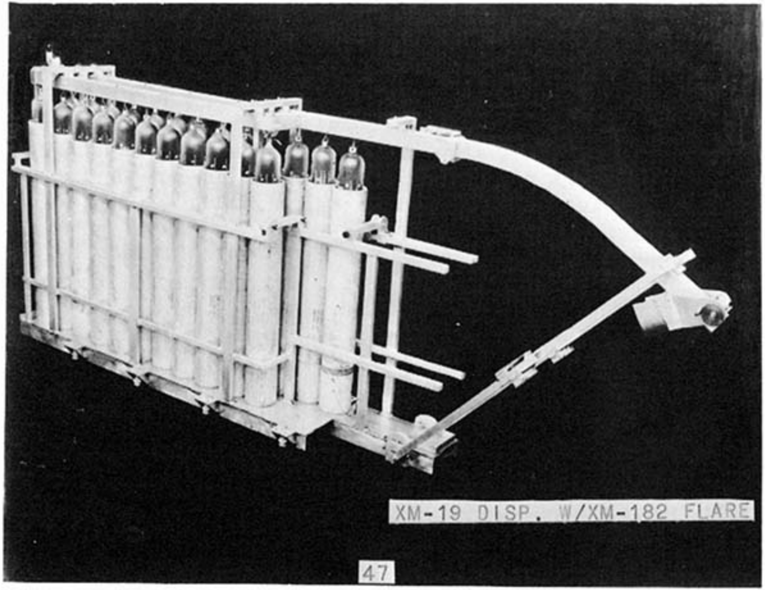
This cluster is used for the aerial delivery of CS on selected targets.

LENGTH: 62.46 inches

HEIGHT: 10.02 inches

DEPTH: 10.28 inches

WEIGHT: 130 pounds



XM-19 DISP. W/XM-182 FLARE

47

FLARE, AIRCRAFT, PARACHUTE, XM182 (W/FUZE, TIME, XM509E2), AND FLARE DISPENSER, XM19

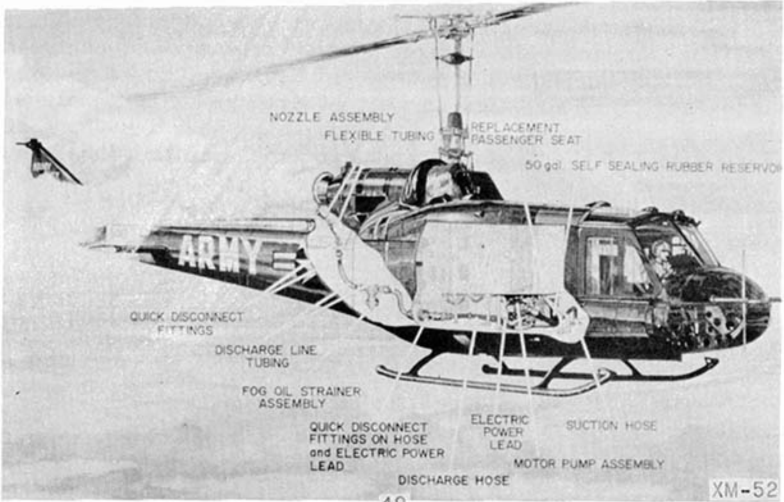
The Flare XM182 w/Fuze Time, XM590E2 replaces the Flare, Aircraft, Parachute MK 24. It provides increased safety, improved functioning reliability, simultaneous candle ejection and ignition, an easy-to-set fuze, and direct-reading fuze settings in feet of drop prior to candle ejection and ignition. The Dispenser XM-19 improves helicopter launching of XM182 flares by eliminating the lanyard or static line used in manual launching.

FLARE:

LENGTH (W/COVER, MAX) 39.165 in
DIAMETER(W/COVER, MAX.) 4.87 in
SETTING: 350-4500 ft of drop
WEIGHT: 27.5 lb
BURNING TIME (AUG.): 180 sec
RATE OF DECENT (AUG.): 7.5 ft/sec.
CANDLE POWER (AUG.): 2,000,000 candles

DISPENSER:

LENGTH:
 BASE W/SNOUT COLLAPSED 81.0 in
 OVERALL W/SNOUT EXTENDED 118.0 in
WIDTH: 16.0 in
HEIGHT: 46.0 in
WEIGHT(UNLOADED): 150.0 lb
CAPACITY: 24 flares, XM182


NOZZLE ASSEMBLY
FLEXIBLE TUBING
REPLACEMENT PASSENGER SEAT
50 gal. SELF SEALING RUBBER RESERVOI
ARMY
QUICK DISCONNECT FITTINGS
DISCHARGE LINE TUBING
FOG OIL STRAINER ASSEMBLY
QUICK DISCONNECT FITTINGS ON HOSE and ELECTRIC POWER LEAD
ELECTRIC POWER LEAD
SUCTION HOSE
MOTOR PUMP ASSEMBLY
DISCHARGE HOSE
XM-52

SMOKE GENERATING SUBSYSTEM, HELICOPTER: XM-52

The XM52 Subsystem is an integral smoke generator, used on UH-1D Helicopter, which produces a dense cloud of screening smoke by injecting atomized fog oil into the hot exhaust gasses of the turbine engine. The Subsystem consists of a 50 gallon self-sealing rubber oil tank, pump, motor, control unit, a nozzle ring around the engine exhaust, operating switch and oil level gauge mounted in the cockpit.

ARMY AIRCRAFT ARMAMENT

ITEM LISTING

ARMAMENT SUBSYSTEMS

M-2 Armament Subsystem, Helicopter, 7.62mm Machine Gun: Twin Gun, OH-13, OH-23.

XM-3E1 Armament Subsystem, Helicopter, 2.75" Rocket Launcher: (58" tubes) UH-1B/C.

M-5 Armament Subsystem, Helicopter, 40mm Grenade Launcher: (Nose mounted M-75 on UH-1B/C.

M-6 Armament Subsystem, Helicopter, 7.62mm Machine Gun: Quad Gun (M60C), UH-1B/C.

XM-8 Armament Subsystem, Helicopter, 40mm Grenade Launcher: (Uses XM-129 Grenade Launcher), OH-6A, OH-58.

M16 Armament Subsystem, Helicopter, 7.62mm Machine Gun, 2.75" Rocket Launcher: (M-6 modified to incorporate rocket capability) (Std. B). UH-1B/C.

ARMAMENT SUBSYSTEMS (CONT)

M-21	Armament Subsystem, Helicopter, 7.62mm Machine Gun High Rate, 2.75" Rocket Launcher: UH-1B/C.
M-22	Armament Subsystem, Helicopter, Guided Missile Launcher: Utilizes AGM-22B (Formerly SS-11B1), UH-1B/C.
M-23	Armament Subsystem, Helicopter, 7.62mm Machine Gun: Door Mounted (Pintle mounted on UH-1D) (Uses M60D Gun).
M-24	Armament Subsystem, Helicopter, 7.62mm Machine Gun: Door Mounted (Pintle mounted on CH-47) (Uses M60D Gun).
XM-26	Armament Subsystem, Helicopter, Guided Missile Launcher: TOW/UH-1. (Development Only).
XM-27E1	Armament Subsystem, Helicopter, 7.62mm Machine Gun: High Rate (Adaption of the M-134 M.G. to the OH-6A and OH-58).

ARMAMENT SUBSYSTEMS (CONT)

XM-28	Armament Subsystem, Helicopter, 7.62mm Machine Gun, 40mm Grenade Launcher: High Rate, AH-1G.
XM-30	Armament Subsystem, Helicopter, 30mm Automatic Gun: (uses XM-140 Gun), UH-1C. (No production contemplated at this time).
XM-41	Armament Subsystem, Helicopter, 7.62mm Machine Gun: Ramp Mounted, (Uses M60D Gun), CH-47.

PODS AND MOUNTS

XM-14	Armament Pod, Aircraft, .50 Machine Gun (750 rounds) (Uses M-3 Gun).
XM-18E1	Armament Pod, Aircraft, 7.62mm Machine Gun: High Rate (Uses M134 Gun) (SUU-11 A/A, AF).
XM-156	Mount, Helicopter, Multi-Armament.

GUNS AND LAUNCHERS

M-60D	Machine Gun, 7.62mm (M60 modified to incorporate spade grips).
M-75	Launcher, Grenade, 40mm.
XM-129	Launcher, Grenade, 40mm (Redesign of M-75).
M-134	Machine Gun, 7.62mm, High Rate.
XM-140	Gun 30mm Automatic.
XM-157B	Launcher, Rocket, Aircraft: 2.75" FFAR (7 tube reusable pod) (58" tubes).
M-158	Launcher, Rocket, Aircraft: 2.75" FFAR (7 tube pod).
XM-159C	Launcher, Rocket, Aircraft: 2.75" FFAR (19 tube reusable pod) (58" tubes).

AMMUNITION, FUZES AND WARHEADS

M-384	Cartridge, 40mm HE.
M-385	Cartridge, 40mm Practice.
XM-428	Cartridge, 40mm Practice/Spotting Charge.
XM-429	Cartridge, 40mm Heat, (Anti-light armor/anti-personnel)
XM-552	Cartridge, 30mm Heat, (Anti-light armor/anti-personnel) (for XM-140).
XM-554	Cartridge, 30mm Practice (Pyrotechnic signature).
XM-639	Cartridge, 30mm Training (Solid slug).
AGM-22B	Guided Missile, Heat (Used with M22 Subsystem).
XMGM-71A	Guided Missile, Heat (TOW). (Used with XM-26 Armament Subsystem and TOW/Cheyenne.)

AMMUNITION, FUZES AND WARHEADS (CONT)

M-423	Fuze, Graze Sensitive, Super Quick (For 2.75" FFAR).
XM-429	Fuze, Airburst, Proximity (For 2.75" FFAR).
M-533	Fuze, Mechanical, Point Detonation (For 40mm, M-384).
XM-596	Fuze, Airburst, Proximity (For 40mm, M-384)
M-151	Warhead, 2.75" Rocket, H.E., 10 lb.
XM-152	Warhead, 2.75" Rocket, H.E., Red Marker, 6 lb.
XM-153	Warhead, 2.75" Rocket, H.E., Yellow Marker, 6 lb.
M-156	Warhead, 2.75" Rocket, Chemical Agent, WP, 10 lb.
XM-229	Warhead, 2.75" Rocket, H.E., 17 lb.

FIRE CONTROL

M-58	Sight, Antioscillation, for M-22 Subsystem. (Replaces M-55 Binocular).
M-60	Sight, Reflex, Helicopter (Pilot Sight for M-16, M-21). (Follow-on item to MK-8 Sight).
XM-70E1	Sight, Reflex, Helicopter (Used with XM-27E1 and XM-8).

DISPENSERS

XM-3	Dispenser for Gravel Mine (XM-27).
XM-4	Ground Dispenser Mine for XM-27 AP Mine.
XM-18	Army Designation for the Air Force SUU 14 (6 tube, 2.75", Aft Ejecting).
XM-19	Dispenser for XM-182 Flare.
XM-20	Dispenser, Grenade, Smoke: Smoke Marker Dispenser installed in the AH-1G.

MUNITION/SMOKE/CHEMICAL SUBSYSTEMS

XM-15	Canister, Cluster, Chemical Agent: 50 lb. Riot Control CS Canister (Prototype designation E-158).
XM-165	Canister, Cluster Assembly, Chemical Agent: 130 lb. Riot Control CS Canister Cluster (Composed of 2 each XM-15 Canister Clusters on hardback) (Prototype designation E-159).
XM-15	Dispenser and Flare, Aircraft: Two XM-18 Dispensers and XM-170 Flares).
XM-25	Dispenser and Bomb, Aircraft: XM-18 Dispenser and XM-144 Bomblets (BLU 3 mod.).
XM-27	Dispenser and Grenade, Aircraft: XM-18 Dispenser and XM-54 CS Grenade.
XM-47	Mine Dispensing Subsystem, Aircraft: XM27 and XM22 AP Mines and XM-3 Dispenser.

MUNITION/SMOKE/CHEMICAL SUBSYSTEMS

XM-52 Smoke Generator Subsystem, Helicopter: Fog oil pumped from 50 gallon tank to engine exhaust. Subsystem presently installed in UH-1D only.